

## WHAT IS CLAIMED IS:

1. A golf ball comprising a core and a cover, said cover formed from a polymer composition, wherein a coefficient of loss of said polymer composition at  $-20^{\circ}\text{C}$ ,  $T(-20)$ , measured by a viscoelasticity spectrometer under a condition of: the dynamic distortion being 5%; the frequency being 10 Hz; the temperature-elevating rate being  $4^{\circ}\text{C}/\text{min.}$ ; and the deformation mode being tension, and a complex elastic modulus of said polymer composition at  $-20^{\circ}\text{C}$ ,  $E(-20)$   $\text{Kgf}/\text{cm}^2$ , measured under the same condition satisfy the following mathematical formula (I):

$$T(-20) \geq 4.2 * 10^{-5} * E(-20) - 0.24 \quad (\text{I}).$$

2. The golf ball according to claim 1 wherein said coefficient of loss  $T(-20)$  and complex elastic modulus  $E(-20)$  satisfy the following mathematical formula (II):

$$T(-20) \geq 4.2 * 10^{-5} * E(-20) - 0.116 \quad (\text{II}).$$

3. The golf ball according to claim 1 wherein said coefficient of loss  $T(-20)$  is equal to or greater than 0.05 and equal to or less than 0.50, and said complex elastic modulus  $E(-20)$  is equal to or greater than 500.

4. The golf ball according to claim 3 wherein said coefficient of loss  $T(-20)$  is equal to or greater than 0.05 and equal to or less than 0.40, and said complex elastic modulus  $E(-20)$  is equal to or greater than 1000.

5. The golf ball according to claim 1 wherein the thickness of said cover is equal to or greater than 0.3 mm and equal to or less than 1.4 mm.

6. The golf ball according to claim 5 wherein the thickness of said cover is equal to or greater than 0.3 mm and equal to or less than 1.0 mm.